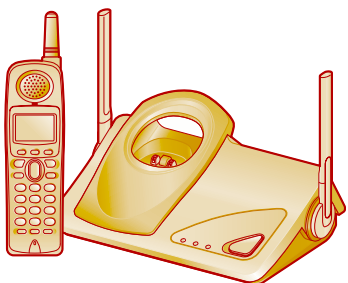


5.8 GHz Digital Cordless Phone

## **Operating Instructions**

Model No. **KX-TG5055**

Pulse-or-tone dialing capability



The unit is Caller ID compatible. To display the Caller's name and phone number, you must subscribe to Caller ID service.

**PLEASE READ BEFORE USE AND SAVE.**

**Charge the battery for 6 hours before initial use.** 3) u □ u u □ O Y d O 2

**Panasonic World Wide Web address: <http://www.panasonic.com>**  
for customers in the USA or Puerto Rico

**Thank you for purchasing your new Panasonic cordless telephone.**

Please read the IMPORTANT SAFETY INSTRUCTIONS on page 50 before use. Read and understand all instructions.

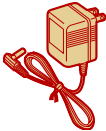

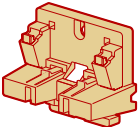

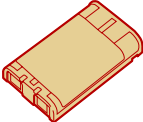
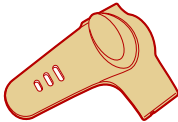
Caller ID, Call Waiting and Voice Mail Service, where available, are telephone company services. After subscribing to Caller ID this phone will display a caller's name and phone number. Call Waiting Caller ID, which displays a second caller's name and phone number while the user is on another call, requires a subscription to both Caller ID and Call Waiting with Caller ID Services (CWID). After subscribing to Voice Mail Service, this unit will give you visual indication to let you know when there are messages in the mailbox.

**Attach your purchase receipt here.**

**Accessories (included)**

For extra orders, call 1-800-332-5368.

For hearing or speech impaired TTY users, call 1-866-605-1277.

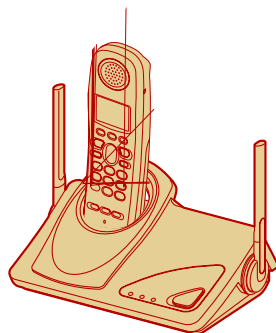
<div><input type="checkbox"/> AC Adaptor (p. 9) Order No. PQLV1Z (PQLV1)</div> <div></div> <div>one</div>	<div><input type="checkbox"/> Telephone Line Cord (p. 9) Order No. PQJA10075Z</div> <div></div> <div>one</div>	<div><input type="checkbox"/> Wall Mounting Adaptor (p. 42) Order No. PQKL10063Z1</div> <div></div> <div>one</div>
<div><input type="checkbox"/> Handset Cover (p. 10) Order No. PQKK10142Z2</div> <div></div> <div>one</div>	<div><input type="checkbox"/> Battery (p. 10) Order No. HHR-P104</div> <div></div> <div>one</div>	<div><input type="checkbox"/> Belt Clip (p. 41) Order No. PQKE10377Z2</div> <div></div> <div>one</div>

# For Best Performance

---

## Battery charge

The handset is powered by a rechargeable Nickel-Metal Hydride (Ni-MH) battery. Charge the battery for **6 hours** before initial use (p. 10).



## Base unit location/Noise

Calls are transmitted between the base unit and handset using wireless radio waves. **For maximum distance and noise-free operation**, the recommended base unit location is:

### Note:

- If you use the handset near a microwave oven which is being used, noise may be heard from the receiver or the speaker. Move away from the microwave oven and closer to the base unit.
- If you use the handset near another cordless phone's base unit, noise may be heard. Move away from the other cordless phone's base unit and closer to your base unit.

# Contents

---

## *Preparation*

<b>Location of Controls</b> . . . . .	<b>6</b>
<b>Display</b> . . . . .	<b>8</b>
<b>Installation</b> . . . . .	<b>9</b>
Connections . . . . .	9
Installing the Battery in the Handset. . . . .	10
Battery Charge . . . . .	10
<b>Programmable Settings</b> . . . . .	<b>12</b>
Programming Guidelines. . . . .	12
Function Menu Table . . . . .	13
Display Language . . . . .	14
Dialing Mode . . . . .	14
Line Mode . . . . .	15
Auto Talk . . . . .	15
Ringer Volume . . . . .	16
Ringer Tone . . . . .	17
LCD Contrast . . . . .	18
Message Alert . . . . .	18

## *Basic Operation*

<b>Making Calls</b> . . . . .	<b>19</b>
<b>Answering Calls</b> . . . . .	<b>22</b>
<b>Caller ID Service</b> . . . . .	<b>23</b>
<b>Using the Caller List</b> . . . . .	<b>24</b>
Viewing the Caller List. . . . .	24
Calling Back from the Caller List . . . . .	25
Editing the Caller's Phone Number . . . . .	26
Caller ID Number Auto Edit . . . . .	27
Storing Caller Information in the Phone Book. . . . .	28
Erasing Caller Information. . . . .	28

## *Advanced Operation*

<b>Phone Book</b> . . . . .	<b>29</b>
Storing Names and Numbers . . . . .	29
Dialing from the Phone Book . . . . .	31
Chain Dial . . . . .	32
Editing an Item in the Phone Book. . . . .	33
Erasing an Item in the Phone Book. . . . .	33
<b>Voice Mail Service</b> . . . . .	<b>34</b>
Storing a Voice Mail Access Number . . . . .	34
Setting Voice Mail (VM) Tone Detection . . . . .	35
Listening to Voice Mail Messages . . . . .	36
<b>Special Features</b> . . . . .	<b>37</b>
Handset Locator . . . . .	37
Muting Your Conversation. . . . .	37
Temporary Tone Dialing (For Rotary or Pulse Service Users) . . . . .	37
For Call Waiting Service Users. . . . .	38
Using the PAUSE Button (For PBX Line/Long Distance Calls). . . . .	38
FLASH Button . . . . .	39
Key Tone . . . . .	40
Re-registering the Handset . . . . .	40

## Useful Information

Belt Clip .....	41
Optional Headset .....	41
Wall Mounting .....	42
Direct Commands .....	45
If the Following Appear on Your Display... ..	46
Troubleshooting .....	47
Important Safety Instructions .....	50
FCC and Other Information ...	52
Index .....	55
Warranty .....	57
Specifications .....	59

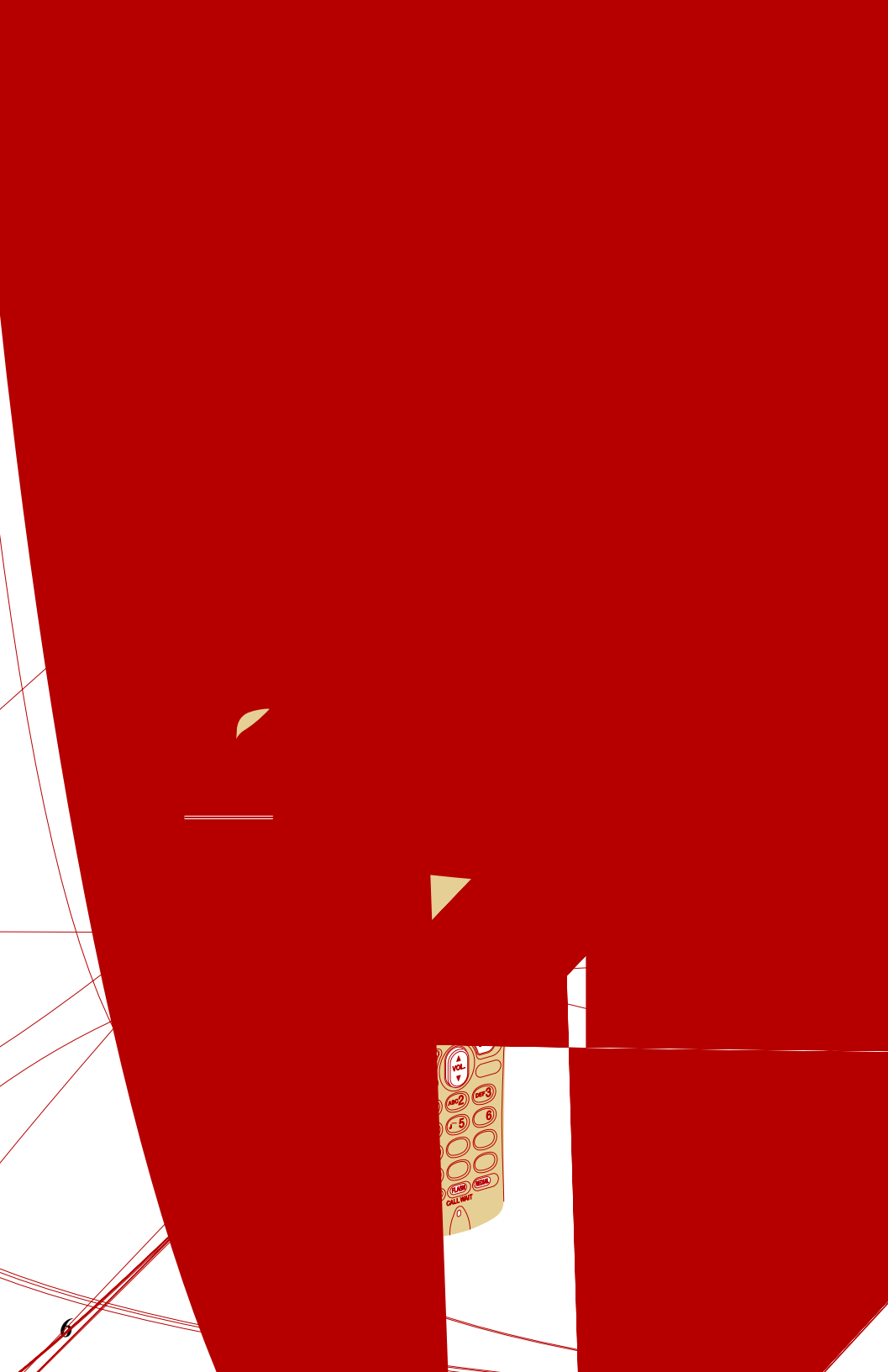
### Important

Throughout these Operating Instructions, **Handset** and **Base Unit** are used to indicate with which unit an operation can be performed.

**Handset** : Perform with the handset.

**Base Unit** : Perform with the base unit.

**Handset & Base Unit** : Perform with the handset and base unit together.



## Location of Controls

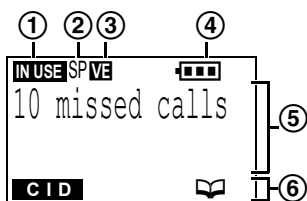
---

### Home/navigator key

Used to select functions  
with key. Functions  
change depending on

# Display

## Handset



① "IN USE" functions as follows.

Off (invisible)	The line is free.
On	The line is in use.
Flashing	A call is on hold.
Flashing rapidly	A call is being received.

② "SP" is shown when you are using the speakerphone.

③ "VE" indicates Voice Enhancer mode is on (p. 21).

④ The battery icon indicates battery strength (p. 10).

⑤ The display shows the dialed number, call status, programming options, phone book items, Caller ID information, etc.

⑥ The icons on the bottom line indicate the functions of the corresponding soft keys which are located directly below the display (p. 7).  
Ex. The soft key below "☰" (phone book icon) is used when storing or viewing phone book items (p. 29, 31).



# Installation

---

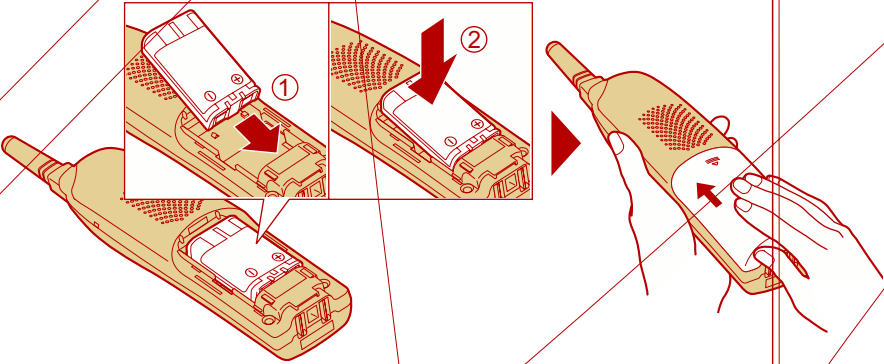
## Connections

- USE ONLY WITH Panasonic AC ADAPTOR PQLV1 (Order No. PQLV1Z).
- The AC adaptor must remain connected at all times. (It is normal for the adaptor to feel warm during use.)
- If your unit is connected to a PBX which does not support Caller ID and voice mail services, you cannot access those services.
- This unit will not function during a power failure. We recommend connecting a standard telephone to the same telephone line or to the same telephone jack using the Panasonic KX-J66 T-adaptor.

# Installation

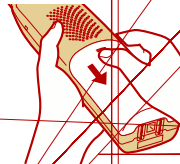
## Installing the Battery in the Handset

Insert the battery (①), and press it down until it snaps into the compartment (②). Close the cover.



### To replace the battery:

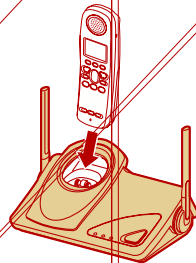
Press the notch on the cover firmly and slide it as indicated by the arrow. Replace the old battery with a new one (p. 11). Close the cover and charge the handset for 6 hours.



## Battery Charge

Place the handset on the base unit for **6 hours** before initial use.

- The unit beeps once, the CHARGE indicator lights and “Charging” is displayed.
- When the battery is fully charged, “Charge completed” is displayed if there are no new calls in the Caller List.



## Battery strength

You can confirm the battery strength on the handset display. Battery strength is indicated by the icons shown in the chart to the right.

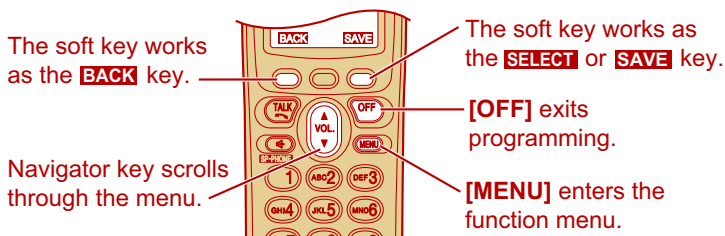
Display prompt	Battery strength
	Fully charged
	Medium
	Low
(flashing)	Needs to be recharged.
	Discharged



# Programmable Settings

## Programming Guidelines **Handset**

The unit has several programmable functions which can be selected from the function menu on the display (p. 13).

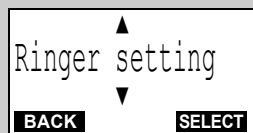


### How to select a function item from the menu

**Make sure the handset and base unit are not being used. The handset must be operated near the base unit and while off the base unit.**

#### 1 Press **[MENU]**.

- The main menu is displayed (p. 13).



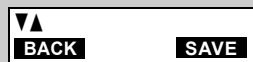
#### 2 Scroll to the desired item by pressing **[▼]** or **[▲]**.

#### 3 Press the soft key (**SELECT**) to select the desired item.

- #### 4 If the item has a sub-menu, select the menu item (p. 13). Repeat steps 2 and 3 until the desired item is displayed. If the item has no sub-menu, go to step 5.

#### 5 Select the desired setting by pressing **[▼]** or **[▲]**, then press the soft key (**SAVE**).

- A confirmation tone will be heard and the setting will be saved.



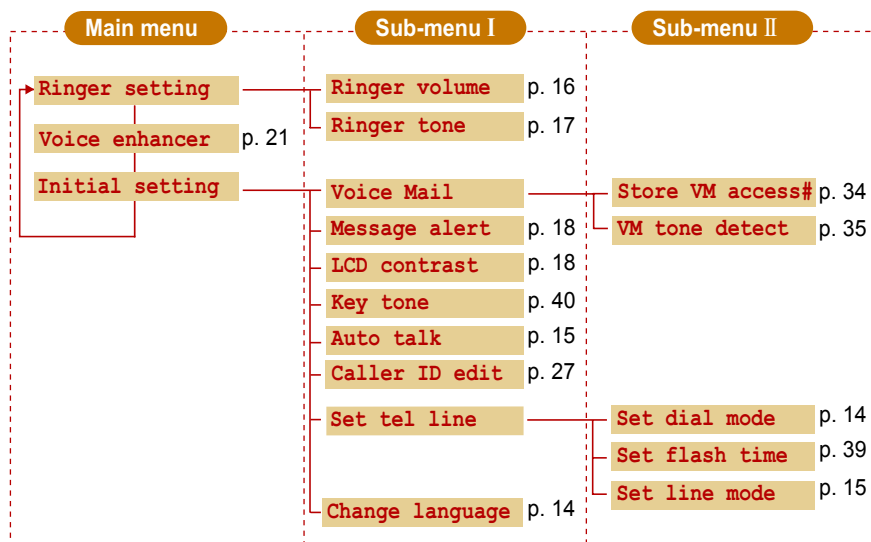
#### 6 Press **[OFF]** to exit programming mode.

- To go back to the previous menu, press the soft key (**BACK**), or press the soft key (**SELECT**) while "--- (Go back) ---" is displayed. If you press this key in the main menu, the unit will exit programming mode.
- After programming is complete, the display will return to the main menu or the sub-menu depending on which menu the selected item is located. (See the menu table on page 13.)
- You can exit programming mode at any time by pressing **[OFF]**.
- If you do not press any buttons for 60 seconds, the unit will exit programming mode.
- If the unit detects a problem, an error message will be displayed (p. 46) and/or error beeps will sound.

## Function Menu Table **Handset**

You can use the following functions to customize your unit. See the corresponding pages for function details.

- After pressing **[MENU]**, you can also program menu items directly by pressing (**[0]** to **[9]**, and **[#]**) instead of using the soft keys (p. 45).



# Programmable Settings

## Display Language **Handset**

You can select either “English” or “Spanish” as the display language. The factory preset is “English”.

1 Press <b>[MENU]</b> .	
2 Scroll to “Initial setting” by pressing <b>[▼]</b> or <b>[▲]</b> , then press the soft key <b>(SELECT)</b> .	Initial setting
3 Scroll to “Change language” by pressing <b>[▼]</b> or <b>[▲]</b> , then press the soft key <b>(SELECT)</b> .	Change language
4 To change from English to Spanish, press the soft key <b>(ESPAÑOL)</b> . To change from Spanish to English, press the soft key <b>(ENGLISH)</b> . <ul style="list-style-type: none"><li>• The display changes to the selected language.</li><li>• You can also select the display language by pressing <b>[▼]</b> or <b>[▲]</b>.</li></ul>	Display :English
5 When Spanish is selected, press the soft key <b>(GUARDAR)</b> , then press <b>[OFF]</b> . When English is selected, press the soft key <b>(SAVE)</b> , then press <b>[OFF]</b> .	

- If you select a language you cannot read, change the display language again using direct commands (p. 45).

## Dialing Mode **Handset**

If you have touch tone service, set the dialing mode to “Tone”. For rotary or pulse service, set to “Pulse”. The factory preset is “Tone”.

1 Press <b>[MENU]</b> .	
2 Scroll to “Initial setting” by pressing <b>[▼]</b> or <b>[▲]</b> , then press the soft key <b>(SELECT)</b> .	Initial setting
3 Scroll to “Set tel line” by pressing <b>[▼]</b> or <b>[▲]</b> , then press the soft key <b>(SELECT)</b> .	Set tel line
4 Press the soft key <b>(SELECT)</b> at “Set dial mode”.	Set dial mode
5 Select “Pulse” or “Tone” by pressing <b>[▼]</b> or <b>[▲]</b> .	Set dial mode :Tone
6 Press the soft key <b>(SAVE)</b> , then press <b>[OFF]</b> .	

## Line Mode **Handset**

The line mode is preset to “B” and generally should not be adjusted. If “**IN USE**” is not displayed on the handset properly, the line mode selection is incorrect. Set line mode to “A”.

1 Press **[MENU]**.

2 Scroll to “Initial setting” by pressing **[▼]** or **[▲]**, then press the soft key **(SELECT)**.

Initial setting

3 Scroll to “Set tel line” by pressing **[▼]** or **[▲]**, then press the soft key **(SELECT)**.

Set tel line

4 Scroll to “Set line mode” by pressing **[▼]** or **[▲]**, then press the soft key **(SELECT)**.

Set line mode

5 Select “A” or “B” by pressing **[▼]** or **[▲]**.

Set line mode  
:B

6 Press the soft key **(SAVE)**, then press **[OFF]**.

## Auto Talk **Handset**

The Auto Talk feature allows you to answer calls by simply lifting the handset off the base unit. You do not need to press **[📞]** or **[📞]**. The factory preset is OFF.

1 Press **[MENU]**.

2 Scroll to “Initial setting” by pressing **[▼]** or **[▲]**, then press the soft key **(SELECT)**.

Initial setting

3 Scroll to “Auto talk” by pressing **[▼]** or **[▲]**, then press the soft key **(SELECT)**.

Auto talk

4 Select “On” or “Off” by pressing **[▼]** or **[▲]**.

Auto talk  
:Off


5 Press the soft key **(SAVE)**, then press **[OFF]**.

- In order to view Caller ID information after you lift the handset to answer a call, leave the Auto Talk feature turned off.

# Programmable Settings

## Ringer Volume **Handset**

You can set the handset ringer volume to high, medium, low, or off. The factory preset is HIGH. If set to off, the handset will not ring for outside calls.

1 Press <b>[MENU]</b> .	
2 Press the soft key ( <b>SELECT</b> ) at “Ringer setting”.	<div>Ringer setting</div>
3 Press the soft key ( <b>SELECT</b> ) at “Ringer volume”.	<div>Ringer volume</div>
4 Select the desired volume by pressing <b>[▼]</b> or <b>[▲]</b> . <ul style="list-style-type: none"><li>• The volume will change and ring.</li><li>• The number of steps indicates the volume level.</li><li>• <b>To turn the ringer off</b>, press <b>[▼]</b> repeatedly until “Off ?” is displayed.</li></ul>	<div>Ex. High</div> <div>Ringer volume Low  High</div> <div>Ex. Off</div> <div>Ringer volume Off ?</div>
5 Press the soft key ( <b>SAVE</b> ).	

- If the handset ringer is turned off, the handset displays “Ringer off” while not in use. When there are new messages in your voice mailbox (p. 36), “Ringer off” is not displayed.
- You can also adjust the ringer volume while an outside call is ringing. Press **[▼]** or **[▲]** while the handset is ringing.

### Temporary ringer off

While the handset is ringing for an outside call, you can turn the ringer off temporarily by pressing **[OFF]**. The handset will ring again as normal the next time a call is received.



## Ringer Tone **Handset**


- You can set the handset ringer to use one of 7 ringer patterns for outside calls. “Tone 1” to “Tone 3” are bell ringer patterns. “Melody 1” to “Melody 4” are melody patterns. The factory preset is “Tone 1”.
- If you subscribe to a Distinctive Ring Service (such as IDENT-A-RING) from your telephone company with 2 or 3 consecutive rings, select a bell ringer pattern (Tone 1 to 3). If you select a melody pattern, you will not be able to distinguish lines by their ringers.
  - If you select one of the melody ringer patterns, the ringer will continue to sound for several seconds if:
    - the caller hangs up before you answer the call, or
    - another person answers the call using another phone connected on the same line.

1 Press <b>[MENU]</b> .	
2 Press the soft key ( <b>SELECT</b> ) at “Ringer setting”.	Ringer setting
3 Scroll to “Ringer tone” by pressing <b>[▼]</b> or <b>[▲]</b> , then press the soft key ( <b>SELECT</b> ).	Ringer tone
4 Select the desired ringer tone by pressing <b>[▼]</b> or <b>[▲]</b> . <ul style="list-style-type: none"><li>• The handset will ring and the ringer tone will change. If the ringer volume has been turned off, the handset will not ring (p. 16).</li><li>• You can also select the ringer tone by pressing <b>[1]</b> to <b>[7]</b>.</li></ul>	Ringer tone 1:Tone 1
5 Press the soft key ( <b>SAVE</b> ), then press <b>[OFF]</b> .	

# Programmable Settings

## LCD Contrast **Handset**

There are 6 levels of LCD contrast. The factory preset is “level 3”.

1 Press <b>[MENU]</b> .	
2 Scroll to “Initial setting” by pressing <b>[▼]</b> or <b>[▲]</b> , then press the soft key ( <b>SELECT</b> ).	Initial setting
3 Scroll to “LCD contrast” by pressing <b>[▼]</b> or <b>[▲]</b> , then press the soft key ( <b>SELECT</b> ).	LCD contrast
4 Select the desired contrast by pressing <b>[▼]</b> or <b>[▲]</b> . <ul style="list-style-type: none"><li>• The contrast will change.</li><li>• The number of steps indicates the contrast level.</li></ul>	Ex. Level 3 LCD contrast Low  High
5 Press the soft key ( <b>SAVE</b> ), then press <b>[OFF]</b> .	

## Message Alert **Handset**

You can select whether or not the Ringer/Message Alert indicator on the handset will flash slowly when new messages in your voice mailbox have been recorded (p. 36). The factory preset is OFF.

1 Press <b>[MENU]</b> .	
2 Scroll to “Initial setting” by pressing <b>[▼]</b> or <b>[▲]</b> , then press the soft key ( <b>SELECT</b> ).	Initial setting
3 Scroll to “Message alert” by pressing <b>[▼]</b> or <b>[▲]</b> , then press the soft key ( <b>SELECT</b> ).	Message alert
4 Select “On” or “Off” by pressing <b>[▼]</b> or <b>[▲]</b> .	Message alert :Off
5 Press the soft key ( <b>SAVE</b> ), then press <b>[OFF]</b> .	

- The Ringer/Message Alert indicator will not flash for new messages while the handset is in use.
- The Ringer/Message Alert indicator acts as a ringer indicator and as a message alert indicator. This indicator will flash rapidly when a call is received whether this feature is on or off.
- Battery operating time may be shortened when using this feature (p. 11).



# Making Calls

## To dial after confirming the entered number

1. Enter a phone number.



- If you misdial, press the soft key **(CLEAR)**. Enter the correct phone number.
  - If a pause is required when dialing, press the soft key **(PAUSE)** where needed (p. 38).
  - To cancel, press **[OFF]**.
2. Press **[↶]** or **[↷]**.
  3. To hang up, press **[OFF]** or place the handset on the base unit.

## To adjust the receiver/speaker volume during a conversation

There are 3 volume levels for the receiver and 6 volume levels for the speaker.

To increase volume, press **[▲]**.  
To decrease volume, press **[▼]**.

Ex. Receiver volume: High  
Speaker volume: Level 6



- The display shows the current volume setting.
- If you try to increase/decrease volume when it is at the maximum/minimum level, the handset will beep 3 times.

## To redial the last number dialed

Press **[↶]** or **[↷]**, then press **[REDIAL]**.

## To redial using the redial list (Memory Redial)

The last 5 phone numbers dialed are stored in the redial list.

1. Press **[REDIAL]**.
  - The last number dialed is displayed.
2. Scroll to the desired number by pressing **[▼]** or **[▲]**.
  - You can also scroll down through the list by pressing **[REDIAL]**.
  - To exit the list, press **[OFF]**.
3. Press **[↶]** or **[↷]**.
  - **To erase an item**, scroll to the item then press the soft key **(ERASE)**.
  - If "No items stored" is displayed, the list is empty.

## To put a call on hold

Press **[HOLD]** during a conversation.

- "Hold" is displayed.

**To return to the call**, press **[↶]** or **[↷]**.

- If another phone is connected on the same line (p. 9), you can also take the call by lifting its handset.
- If a call is kept on hold for 6 minutes, an alarm tone will start to sound and the Ringer/Message Alert indicator will start to flash rapidly. After 4 additional minutes on hold, the call will be disconnected.

## Voice Enhancer Technology

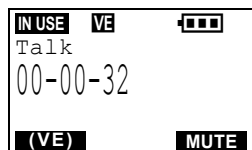
Panasonic's Voice Enhancer Technology clarifies the voice of the person you are talking to, reproducing a more natural-sounding voice that is easier to hear and understand.

Voice Enhancer Technology can be turned on or off. The factory preset is OFF.

- Depending on the condition and quality of your telephone line, this feature may emphasize existing line noise. If it becomes difficult to hear, turn this feature off.

**To turn this feature on**, press the soft key **(VE)** during a conversation.

- "VE"** is displayed.
- To turn this feature off**, press the soft key **(VE)** again. **"VE"** disappears from the display.



- After hanging up a call, the on/off setting will be retained.

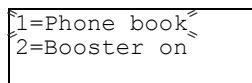
When the handset is not in use, you can also turn this feature on or off by programming as follows:

- Press **[MENU]**.
- Scroll to "Voice enhancer" by pressing **[▼]** or **[▲]**, then press the soft key **(SELECT)**.
- Select "On" or "Off" by pressing **[▼]** or **[▲]**.
- Press the soft key **(SAVE)**, then press **[OFF]**.

## Clarity Booster

This feature can improve sound clarity when the handset is used in an area where there may be interference. During an outside call, this feature will be turned on automatically when necessary. This feature will turn off when you hang up or put a call on hold. It will not turn off automatically during a call. You can also turn this feature on or off manually.

- Press **[MENU]** during an outside call.
- Press **[2]** to select "2=Booster on" or "2=Booster off".



- You can also select "2=Booster on" or "2=Booster off" by pressing **[▼]** then pressing the soft key **(SELECT)**.
- While this feature is turned on, "Booster on" will flash during a conversation.
- If this feature is turned off manually during a call, it will not be turned on automatically during the same call.
- When this feature is turned on automatically or manually, battery operating time may be shortened (p. 11).

## Backlit LCD display/Lighted handset keypad



The handset display and dialing buttons will light for a few seconds after pressing a button or lifting the handset off the base unit.

# Answering Calls

When a call is received, the unit rings, "Incoming call" is displayed, and the Ringer/Message Alert indicator on the handset and the IN USE indicator on the base unit flash rapidly.

---

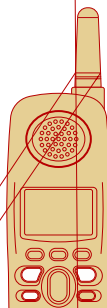
## 1 Press [] or [].

- You can also answer a call by pressing any button except [, [, or [**OFF**].

---

## 2 To hang up, press [**OFF**] or place the handset on the base unit.

---



### Auto Talk

If the Auto Talk feature is turned on (p. 15), you can answer a call by simply lifting the handset off the base unit.

### Temporary ringer off

While the handset is ringing for an outside call, you can turn the ringer off temporarily by pressing [**OFF**]. The handset will ring again as normal the next time a call is received.

- If the ringer volume is turned off, the unit will not ring (p. 16).

# Caller ID Service

This unit is compatible with Caller ID services offered by your telephone company. If you subscribe to Caller ID, caller names and phone numbers will be displayed and recorded in the Caller List.

## How Caller ID information is displayed

When a call comes in, the unit will ring and Caller ID information will be received. The handset display will show the caller's information.\*

- After you answer the call, the display will show the length of the call.

Example

ROBINSON, TINA
1-555-222-3333

### \*Personalized Name Display

If you receive a call from one of the same phone numbers stored in the phone book, the handset will show the caller's name stored in the phone book instead of incoming caller's name.

- If the unit does not receive Caller ID information, one of the following will be displayed:

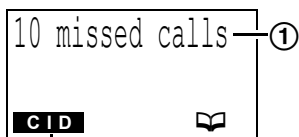
Display	Meaning
Out of area	The caller dialed from an area which does not provide Caller ID service.
Private caller	The caller requested not to send his/her information.
Long distance	The caller made a long distance call.

- Depending on radio communications with the base unit, the handset may not display Caller ID information immediately after the first ring.
- If your unit is connected to a PBX which does not support Caller ID, you cannot access Caller ID service.
- Name display service may not be available in some areas. For further information, please contact your telephone company.
- If you subscribe to both Caller ID and Call Waiting with Caller ID service (CWID), when a second call is received while talking, a call waiting tone will be heard and the second caller's information will be displayed (p. 38).  
Contact your telephone company for details about availability in your area, and to verify that CWID service is activated on your telephone line.

# Using the Caller List

The unit can record information up to 50 different callers and store this information in the Caller List. Caller information is sorted by the most recent call to the oldest. When the 51<sup>st</sup> call is received, the information from the 1<sup>st</sup> call is deleted.

The unit will also tell you how many calls you missed while you were out or unavailable to answer the phone.



② Stands for Caller ID

- ① The display will show the number of calls you missed.
- ② Press the soft key (**CID**), [**▼**], or [**▲**] to review other calls logged in the Caller List.
  - If there are no items in the Caller List, "**CID**" will not be displayed.
  - After viewing the missed call entries, "missed calls" will disappear from the display.

## Viewing the Caller List **Handset**

- 1 Press the soft key (**CID**), [**▼**], or [**▲**] to enter the Caller List.

Ex. 10 calls missed.

Caller list  
10 missed calls  
▼▲=Scroll list

- 2 To search from the most recent call, press [**▼**].  
To search from the oldest call, press [**▲**].
  - The caller's name, number and the time and date of the call are displayed.

Example

SMITH, JACK  
1-555-333-4444  
3:10P JUN.10

- 3 Press [**OFF**] to exit the list.

- If there is no name information for a caller and you do not store the name and phone number in the phone book, the display will only show the phone number.
- If you do not press any buttons for 60 seconds, the unit will exit the Caller List.



# Using the Caller List

## What “√” means

“√” indicates you have already viewed this calling information or answered the call. If the same caller calls again, the call entry with the “√” will be replaced with the new call entry.

SMITH, JACK 1-555-333-4444 3:10P JUN.10 √
-------------------------------------------------

## If a caller calls more than once

The number of times the same caller called is displayed (“x2” to “x9”). The date and time of the most recent call will be recorded. After viewing a caller’s information, “x2” to “x9” will be replaced with “√”.

Ex. Called 3 times.

TURNER, CINDY 1-555-456-7890 11:20A JAN.12 x3
-----------------------------------------------------

## Calling Back from the Caller List **Handset**

- 1 Press the soft key (**CID**), [**▼**], or [**▲**] to enter the Caller List.
- 2 Scroll to the desired caller by pressing [**▼**] or [**▲**].
- 3 Press [**↶**] or [**☎**].
  - The phone number is dialed.

- In some cases, you may have to edit the number before dialing (p. 26). (Ex. You may have to delete “1” and the area code.)
- If a phone number is not displayed in the caller information, you cannot call that caller back from the Caller List.

# Using the Caller List

## Editing the Caller's Phone Number **Handset**

You can edit a phone number in the Caller List by removing its area code and/or the long distance code "1".

Once you call back an edited number, this unit can automatically edit incoming phone numbers from the same area code in the Caller List and each time you receive a call (**Caller ID Number Auto Edit**, p. 27).

**1** Press the soft key (**CID**), [**▼**], or [**▲**] to enter the Caller List.

**2** Scroll to the desired caller by pressing [**▼**] or [**▲**].

PARKER, FRED  
1-555-321-5555

**3** Press the soft key (**EDIT**) repeatedly until the number is shown in the desired format.

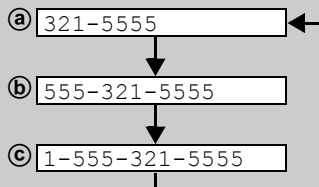
- Each time you press the soft key (**EDIT**), the number is rearranged into one of 3 patterns.

Ⓐ Phone no.

Ⓑ Area code – Phone no.

Ⓒ 1– Area code – Phone no.

- The order in which patterns Ⓐ–Ⓒ are displayed depends on how the telephone number is displayed in step 2.



**4** To call the edited number, press [**↶**] or [**☎**].

- If Caller ID Number Auto Edit feature is turned on (factory preset is on), phone numbers with the same area code as the number you edited will now be edited in the Caller List and each time you receive a call.
- You can press [**OFF**] immediately after pressing [**↶**] or [**☎**] if you wish to activate the Auto Edit feature without actually dialing the number you just edited.

**To save the edited number into the phone book**, press the soft key (**SAVE**).

- If there is no name information, see "Storing Caller Information in the Phone Book" on page 28, from step 3.
- Even if the Auto Edit feature is turned on, this feature will not be activated by saving the edited number in the phone book.

- If you receive a call from a 7-digit phone number stored in the phone book, "**EDIT**" will not be displayed when the call's Caller ID information is displayed.

Caller ID Number Auto Edit **Handset**

Once you call back an edited number (p. 26), this unit can automatically edit incoming phone numbers from the same area code in the Caller List and each time you receive a call. For example, it can ignore the area code of calls originating from your area code, so that you can call these numbers from the Caller List without dialing the area code.

**To activate this feature**, you must edit a caller's phone number in the Caller List (p. 26) by selecting pattern ㉑, ㉒, or ㉓, then make a call to that number. Calls from numbers in that area code will be edited automatically. The unit can remember up to 4 area codes to be edited according to patterns ㉑ and ㉒. When more than 5 area codes are edited, older area codes are reset to pattern ㉓. Phone numbers from the 4 most recently edited area codes will be automatically edited.

You can turn this feature on or off using the handset. The factory preset is ON.

To turn on or off Caller ID Number Auto Edit feature

1 Press [MENU].	
2 Scroll to "Initial setting" by pressing [▼] or [▲], then press the soft key (SELECT).	Initial setting
3 Scroll to "Caller ID edit" by pressing [▼] or [▲], then press the soft key (SELECT).	Caller ID edit
4 Select "Off" or "On" by pressing [▼] or [▲].	Auto edit :On
5 Press the soft key (SAVE), then press [OFF].	

- If you fail to reach your destination when making a call, the phone number you dialed might have an incorrect pattern. Edit the phone number with another pattern (p. 26).
- When this feature is turned off, the unit will still be able to display Caller ID, but incoming Caller ID numbers will not be automatically edited.
- If you move to another area you may need to turn this feature off to erase the previously edited area codes. To use this feature again, turn it on and reprogram the area codes you want to be edited once again.

Basic Operation

# Using the Caller List

## Storing Caller Information in the Phone Book **Handset**

Caller names and phone numbers that are in the Caller List can be stored in the phone book.

- 1 Press the soft key (**CID**), [**▼**], or [**▲**] to enter the Caller List.
  - 2 Scroll to the desired caller by pressing [**▼**] or [**▲**].
    - If the number requires editing, see page 26.
  - 3 Press the soft key (**SAVE**).
    - If there is no name information for the caller, “Enter name” will be displayed.
      - You can enter a name by performing the following steps:
        - (1) enter the name (p. 30),
        - (2) press [**▼**], and
        - (3) press the soft key (**SAVE**).
      - If a name is not required, press [**▼**], then press the soft key (**SAVE**).
    - To continue storing other items, repeat from step 2.
    - To exit programming mode, press [**OFF**].
- You cannot store Caller List items in the phone book if a phone number is not displayed.

## Erasing Caller Information **Handset**

### To erase a specific caller

- 1 Press the soft key (**CID**), [**▼**], or [**▲**] to enter the Caller List.
- 2 Scroll to the desired caller by pressing [**▼**] or [**▲**].
- 3 Press the soft key (**ERASE**).
  - “Erased” is displayed.
  - To erase other items, repeat from step 2.
  - To exit the Caller List, press [**OFF**].



### To erase all entries

- 1 Press the soft key (**CID**), [**▼**], or [**▲**] to enter the Caller List.
  - Before erasing all entries, make sure that “0 missed call” is displayed.
- 2 Press the soft key (**ERASE**).
  - “All erase?” is displayed.
  - To cancel erasing, press the soft key (**NO**).
- 3 Press the soft key (**YES**).
  - “All erased” is displayed and all entries in your Caller List are erased.




ns. Press each button until the desired character is displayed.

enters a character in the order shown below.

Characters	Keys	Characters
( ) * , - . / 1	[6]	m n o M N O 6
A B C 2	[7]	p q r s P Q R S 7
f D E F 3	[8]	t u v T U V 8
h i G H I 4	[9]	w x y z W X Y Z 9
j k l J K L 5	[0]	0 Space
	Moves the cursor to the left.	
	Moves the cursor to the right. (To enter another character using the same number key, move the cursor to the next space.)	

**For example, to enter “Tom”:**

1. Press **[8]** four times.
2. Press **[6]** three times, then press the soft key  to move the cursor.

T

To

Tom

**Enter a name or number**

Move the cursor to the incorrect

character.

(**CLEAR**), a character is erased.

hold the soft key (**CLEAR**).

## Dialing from the Phone Book **Handset**

### 1 Press the soft key (📖).

- The display shows the number of stored items.
- You can press the soft key (**SEARCH**) to view the first item.

Phone book  
10 items  
0-9=Name search  
▼▲=Scroll list

### 2 Scroll to the desired item. To scroll down, press [▼]. To scroll up, press [▲].

Phone book items are sorted in the following order:

1	Alphabet letters (Alphabetical)
2	Space & ' ( ) , - . /
3	Numbers 0 to 9
4	# *
5	Telephone numbers (If no name is stored)

Frank  
555-456-7890

### 3 Press [↶], [↷], or the soft key (**CALL**).

- The phone number is dialed.

- If “No items stored” is displayed in step 1, the phone book is empty.
- To exit the phone book, press **[OFF]**.

## To search for a name by initial

### 1. Press the soft key (📖).

### 2. Press the dialing button for the first letter of the desired name until any name with the same initial is displayed (see the Index table below).

Ex. To find “Frank”, press **[3]** repeatedly until the first item under “F” is displayed.

- If there are no items beginning with the character you selected, the first item in the next alphabetical index will be displayed.

### 3. Press [▼] repeatedly until the desired name is displayed.

## Index table

Keys	Index	Keys	Index
<b>[1]</b>	Symbols, 1	<b>[6]</b>	M, N, O, 6
<b>[2]</b>	A, B, C, 2	<b>[7]</b>	P, Q, R, S, 7
<b>[3]</b>	D, E, F, 3	<b>[8]</b>	T, U, V, 8
<b>[4]</b>	G, H, I, 4	<b>[9]</b>	W, X, Y, Z, 9
<b>[5]</b>	J, K, L, 5	<b>[0]</b>	0, Space

# Phone Book

## Chain Dial **Handset**

You can dial a combination of phone book or manual key pad entries while making a call. This feature can be used, for example, to first automatically dial a calling card access number that you have stored in the phone book, then manually or automatically dial your PIN and then automatically dial the destination from the phone book.

Ex. Using a long distance calling card


- To prevent misdialing, we recommend you add pauses where needed when storing numbers. For example, add pauses after a calling card access number and your PIN when storing in the phone book (p. 29).
1. Search and dial from the phone book: 1-800-012-3456 (Calling card access number)
    - The voice guidance will be announced.
  2. Search and dial from the phone book: 1234 (Calling card PIN)
  3. Search and dial from the phone book: 1-555-012-3456 (Destination Number)

<b>1 While you are on a call;</b> Press <b>[MENU]</b> .	<div>1=Phone book 2=Booster on</div>
<b>2 Press the soft key (<b>SELECT</b>) at “1=Phone book”, or press <b>[1]</b>.</b>	<div>Phone book 30 items 0-9=Name search ▼▲=Scroll list</div>
<b>3 Search for the desired item by pressing <b>[▼]</b> or <b>[▲]</b>.</b> <ul style="list-style-type: none"><li>• To search for an item by initial, see page 31.</li></ul>	<div>Alan 1-555-012-3456</div>
<b>4 Press the soft key (<b>CALL</b>).</b> <ul style="list-style-type: none"><li>• The phone number is dialed.</li><li>• If required, repeat steps 1 to 4 for any remaining numbers.</li></ul>	

- If you have rotary or pulse service, you need to press **[✱]** before pressing **[MENU]** in step 1 to change the dialing mode temporarily to tone.



## Editing an Item in the Phone Book **Handset**

1 Press the soft key (.

2 Scroll to the desired item by pressing [**▼**] or [**▲**].



- To search for the item by initial, see page 31.

Jane  
456-7890

3 Press the soft key (**EDIT**).

Enter name  
Jane  
▼=Next

4 Edit the name (p. 30), then press [**▼**].

- If you do not need to change the name, press [**▼**] then go to step 5.
- To move the cursor, press the soft key () or (.

Enter name  
Jane Walker  
▼=Next

5 Edit the phone number, then press [**▼**].

- If you do not need to change the number, press [**▼**] then go to step 6.
- To delete a digit, press the soft key (**CLEAR**).
- To delete all of the digits, press and hold the soft key (**CLEAR**).


Enter phone no.  
5554567890  
▼=Next

6 Press the soft key (**SAVE**).

- To continue editing other items, repeat from step 2.

7 Press [**OFF**].

## Erasing an Item in the Phone Book **Handset**

1 Press the soft key (.

2 Scroll to the desired item by pressing [**▼**] or [**▲**].

- To search for the item by initial, see page 31.

3 Press the soft key (**ERASE**).

- To cancel erasing, press the soft key (**NO**).

Erase?

4 Press the soft key (**YES**).

- To erase other items, repeat from step 2.

Erased

5 Press [**OFF**].

## Voice Mail Service

Voice mail is an automatic answering service offered by your telephone company. If you subscribe to this service, your telephone company's voice mail system can answer calls for you when you are unavailable to answer the phone or when your line is busy. Callers can leave messages that are saved in virtual voice mailboxes, which are maintained for you at the phone company, allowing you to listen to your messages whenever you like.

The unit will let you know that someone has left voice mail for you (p. 36).

Once you have stored your voice mail access number, you can access your voice mailbox simply by pressing the soft key (**VM**), then pressing **[↵]** or **[↶]** on the handset.

## Storing a Voice Mail Access Number **Handset**

- 1** Press **[MENU]**.

- 2** Scroll to “Initial setting” by pressing [▼] or [▲], then press the soft key (SELECT).

```
Initial setting
```

- 3** Press the soft key (**SELECT**) at “Voice Mail”.

Voice Mail

- 4** Press the soft key (**SELECT**) at “Store VM access#”.

Store VM access#

- 5** Enter your access number, up to 32 digits.

- If a pause is required for dialing, press the soft key (**PAUSE**).\*
- Each time you press the soft key (**CLEAR**), a digit is erased. To erase all of the digits, press and hold the soft key (**CLEAR**).

### Example

Store VM access#  
1234567PPP890

- 6** Press the soft key (**SAVE**), then press **[OFF]**.

- “**VM**” is displayed.

\*To prevent misdialing, you may add pauses between your voice mail access number and your mailbox password in step 5.

Ex. 1-222-333-4444 PPPP 8888

Your voice mail access number

## Pauses

Your mailbox password

Pressing the soft key (**PAUSE**) once creates a 3.5 second delay and counts as one digit. The delay time necessary between entering your access number and entering your mailbox password will depend on your telephone company.

## To erase a stored voice mail access number

Repeat steps 1 to 4 on page 34, then press and hold the soft key (**CLEAR**) until all of the digits are erased. Press the soft key (**SAVE**), then press **[OFF]**.

## Setting Voice Mail (VM) Tone Detection **Handset**

Your telephone company sends special signals (Voice mail tones) to the unit. Press **[📞]** or **[📞]** to listen to the dial tone. If you hear a series of dial tones followed by a continuous dial tone, this indicates that a new message was recorded. Voice Mail detection is preset at the factory to ON. Minutes after you hang up or after the phone stops ringing, your unit will seize the phone line and check if a message has been recorded. If a new message was recorded at your telephone company, "Voice Mail" will be displayed on the handset, the Ringer/Message Alert indicator on the handset will flash slowly if Message Alert is turned on (p. 18), and the VM indicator will flash on the base unit.

Turn off this programming when:

- you do not subscribe to a voice mail service,
- your telephone company does not send a series of tones, followed by a continuous tone to indicate you have new voice mail, or
- your phone is connected to a business or office telephone system (PBX).

See below to turn this setting off.

If you are not sure which setting is required, consult your local telephone company or contact the Panasonic Customer Call Center.

1 Press **[MENU]**.

2 Scroll to "Initial setting" by pressing **[▼]** or **[▲]**, then press the soft key (**SELECT**).

Initial setting

3 Press the soft key (**SELECT**) at "Voice Mail".

Voice Mail

4 Scroll to "VM tone detect" by pressing **[▼]** or **[▲]**, then press the soft key (**SELECT**).

VM tone detect

5 Select "Off" or "On" by pressing **[▼]** or **[▲]**.

VM tone detect  
:On

6 Press the soft key (**SAVE**), then press **[OFF]**.

# Voice Mail Service

## Listening to Voice Mail Messages **Handset**

The unit will let you know that someone has left new voice mail for you:

- (a) the VM indicator will flash on the base unit,
- (b) "Voice Mail" will be displayed on the handset,
- (c) "VM" will flash on the handset, and
- (d) the Ringer/Message Alert indicator on the handset will flash slowly if Message Alert is turned on (p. 18) and the handset is not in use.

### To listen to your voice mail message(s)

- 1 Press the soft key (**VM**), then press [**↶**] or [**↷**].

- "Dial VM access#" is displayed and the number is dialed (p. 34).
- If the handset beeps 3 times and "Store VM access#" is displayed, a voice mail access number is not stored. To store the number, see page 34.



- 2 Follow the pre-recorded instructions.

- 3 When finished, press [**OFF**].

- After listening to your message(s), "VM" stops flashing but remains on the handset display.
- If the handset and base unit still indicate you have new messages even after you have listened to them, turn the voice mail indicators off by pressing and holding [**OFF**] until the handset beeps. "Voice Mail" will disappear and "VM" stops flashing but remains on the handset, and the Ringer/Message Alert indicator on the handset and the VM indicator on the base unit will go out.
- If your voice mail service uses a voice mail tone and the recorded message is over 3 minutes long, the handset and base unit may not indicate you have new messages.
- If your voice mail service uses a voice mail tone, the tone will be heard from any parallel connected phone. If you use another phone to retrieve messages, you have to dial your access number manually.

# Special Features

## Handset Locator **Base Unit**

You can locate the handset or page the handset user with beep tones from the base unit.

### 1 Press **[LOCATOR]** to page the handset.

- The IN USE indicator on the base unit and the Ringer/Message Alert indicator on the handset flash rapidly.
- The paged handset will ring for 1 minute and display "Call from Base".

### 2 To stop paging,

*Base unit:*

Press **[LOCATOR]**.

OR

*Handset:*

Press **[OFF]**.

- You can also stop paging by pressing any button except **[▼]** or **[▲]**.

## Muting Your Conversation **Handset**

During a call, you can mute your phone so the other party cannot listen to you. When muting your conversation, you can hear the other party.

Press the soft key (**MUTE**).

- "Mute" will be displayed for a few seconds and "**MUTE**" will flash.
- **To release the mute**, press the soft key (**MUTE**) again.
- If you press **[↶]** or **[↷]** to switch between the receiver and speaker, the mute will be released.

## Temporary Tone Dialing

### (For Rotary or Pulse Service Users) **Handset**

Press **[✱]** (TONE) before entering access numbers which require tone dialing.

- The dialing mode changes to tone. You can enter numbers to access an answering service, electronic banking service, etc. When you hang up, the dialing mode will return to pulse.

# Special Features

---

## For Call Waiting Service Users **Handset**

Press **[FLASH/CALL WAIT]** if you hear a call waiting tone during a conversation.

- The first call is put on hold and you can answer the second call.
- To return to the first caller, press **[FLASH/CALL WAIT]** again.
- Call Waiting service cannot be used when the first call is put on hold.
- If this function does not operate properly, consult your telephone company for details.

## Call Waiting Caller ID display **Handset**

If you subscribe to both Caller ID and Call Waiting with Caller ID services (CWID), when a second call is received while talking, the second caller's information will be displayed. After you hear a call waiting tone while talking, the display shows the caller's name with the phone number and "Waiting".



BROWN, NANCY
1-555-666-7777
----Waiting----

- Contact your telephone company for details about availability in your area, and to verify that CWID service is activated on your telephone line.

## Using the PAUSE Button (For PBX Line/Long Distance Calls)

### **Handset**

We recommend you press the soft key (**PAUSE**) if a pause is required for dialing with a PBX or to make a long distance call.

- "**PAUSE**" is displayed on the handset only when dialing before pressing [] or [] (p. 20), or storing numbers in the phone book (p. 29).

Ex. Line access number **[9]** (PBX)

**[9]** ➡ Soft key (**PAUSE**) ➡ 

Phone number
--------------

- Pressing the soft key (**PAUSE**) once creates a 3.5 second pause. This prevents misdialing when you dial after confirming the entered number (p. 20) or dial a stored number (p. 31, 32).
- Pressing the soft key (**PAUSE**) more than once increases the length of the pause between numbers.

## FLASH Button **Handset**

Pressing **[FLASH/CALL WAIT]** allows you to use special features of your host PBX such as transferring an extension call, or accessing optional telephone services such as call waiting.

- Pressing **[FLASH/CALL WAIT]** cancels the mute or the Temporary Tone Dialing mode (p. 37).

## Selecting the flash time

The flash time depends on your telephone exchange or host PBX.

You can select the following flash times: “700, 600, 400, 300, 250, 110, 100 or 90 ms (milliseconds)”. The factory preset is “700 ms”.

- If PBX functions do not work correctly, consult your PBX supplier for the correct settings.

1 Press <b>[MENU]</b> .	
2 Scroll to “Initial setting” by pressing <b>[▼]</b> or <b>[▲]</b> , then press the soft key <b>(SELECT)</b> .	Initial setting
3 Scroll to “Set tel line” by pressing <b>[▼]</b> or <b>[▲]</b> , then press the soft key <b>(SELECT)</b> .	Set tel line
4 Scroll to “Set flash time” by pressing <b>[▼]</b> or <b>[▲]</b> , then press the soft key <b>(SELECT)</b> .	Set flash time
5 Select the flash time by pressing <b>[▼]</b> or <b>[▲]</b> .	Set flash time :700ms
6 Press the soft key <b>(SAVE)</b> , then press <b>[OFF]</b> .	

Sp

Ke

You  
conf

1

2

3

4

5

R

If “  
dis  
los  
ba  
• H  
• P  
t

•

•

•

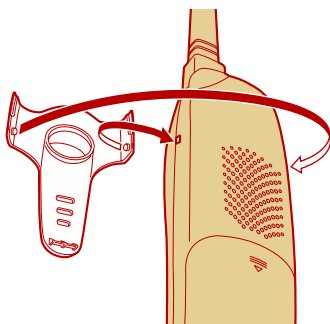
•



# Belt Clip

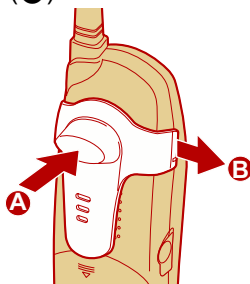
You can hang the handset on your belt or pocket using the included belt clip.

## To attach the belt clip



## To remove the belt clip

While pressing the top of the clip (A), pull the right edge in the direction of the arrow (B).

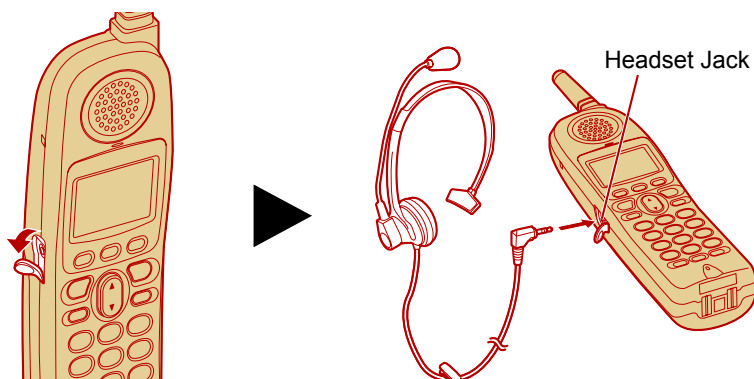


# Optional Headset

Connecting an optional headset to the handset allows hands-free phone conversation. Please use only a Panasonic KX-TCA60, KX-TCA86, KX-TCA88, KX-TCA88HA, KX-TCA91, KX-TCA92, or KX-TCA98 headset. To order, call the accessories telephone number on page 2.

## Connecting an optional headset

Open the headset jack cover, and insert the headset plug into the headset jack as shown below.



- Headset sold separately. Model shown here is KX-TCA88.

**To switch to the speakerphone while using the headset:**

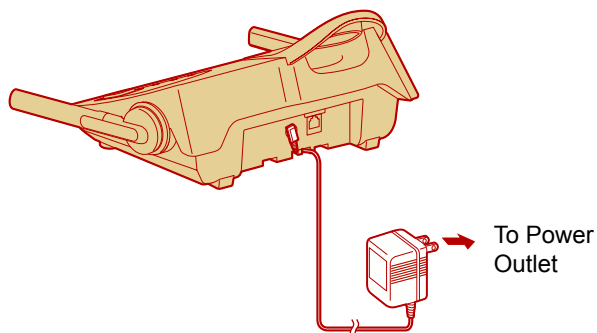
Press [⏮]. To return to the headset, press [⏭].

# Wall Mounting

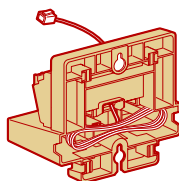
---

This unit can be mounted on a wall phone plate.

- 1 Connect the AC adaptor.



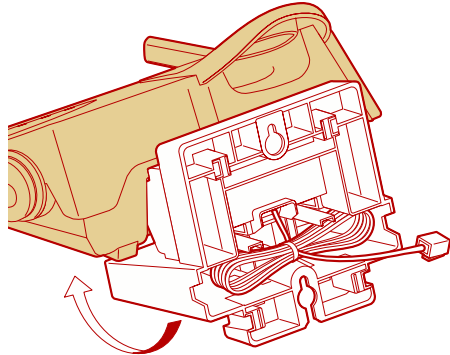
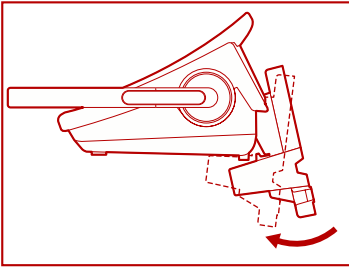
- 2 Tuck the telephone line cord inside the wall mounting adaptor (1).  
Connect the telephone line cord (2).



- 3 Insert the hooks on the wall mounting adaptor into the holes (A) and (B) on the base unit.

## Wall Mounting

- 4** Adjust the adaptor to hold the base unit, then push it in the direction of the arrow until it clicks into place.



- 5** Connect the telephone line cord. Mount the unit, then slide it down.
- Raise the antennas.



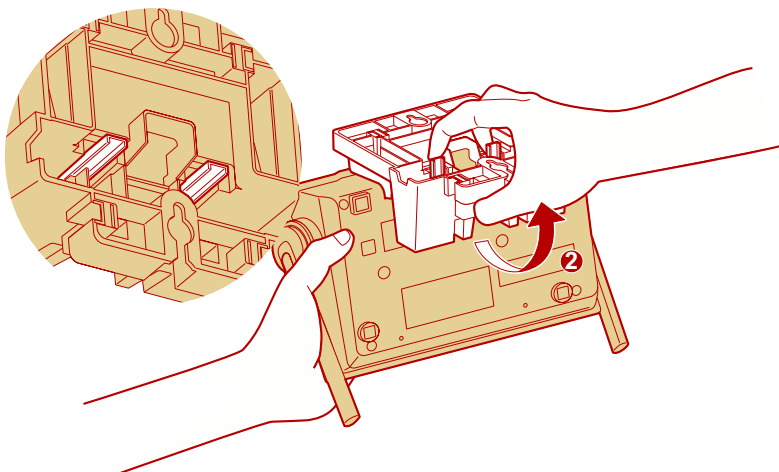
- 6 To charge the handset battery:**
- Place the handset on the base unit.
- The unit beeps once and the CHARGE indicator lights.

## Wall Mounting

---

### To remove the wall mounting adaptor

While pushing down the RELEASE LEVERS (❶), remove the adaptor (❷).



# Direct Commands

## Handset

After pressing **[MENU]**, you can also program menu items directly by pressing (**[0]** to **[9]**, and **[#]**) instead of using the soft keys.

Menu item	Command	Selection items	Page
Ringer volume	<b>[1] [1]</b>	<b>[0]</b> : Off <b>[1]</b> : Low <b>[2]</b> : Medium <b>[3]</b> : High	p. 16
Ringer tone	<b>[1] [2]</b>	<b>[1]–[3]</b> : Tone pattern 1–3 <b>[4]–[7]</b> : Melody pattern 1–4	p. 17
Voice enhancer	<b>[5]</b>	<b>[1]</b> : On <b>[0]</b> : Off	p. 21
LCD contrast	<b>[0] [1]</b>	<b>[1]–[6]</b> : Level 1–6	p. 18
Key tone	<b>[0] [2]</b>	<b>[1]</b> : On <b>[0]</b> : Off	p. 40
Auto talk	<b>[0] [3]</b>	<b>[1]</b> : On <b>[0]</b> : Off	p. 15
Caller ID Number Auto Edit	<b>[0] [4]</b>	<b>[1]</b> : On <b>[0]</b> : Off	p. 27
Set dial mode	<b>[0] [5] [1]</b>	<b>[1]</b> : Pulse <b>[2]</b> : Tone	p. 14
Set flash time	<b>[0] [5] [2]</b>	<b>[1]</b> : 700 ms <b>[2]</b> : 600 ms <b>[3]</b> : 400 ms <b>[4]</b> : 300 ms <b>[5]</b> : 250 ms <b>[6]</b> : 110 ms <b>[7]</b> : 100 ms <b>[8]</b> : 90 ms	p. 39
Set line mode	<b>[0] [5] [3]</b>	<b>[1]</b> : A <b>[2]</b> : B	p. 15
Store VM access#	<b>[0] [7] [1]</b>	Go to Step 5 on page 34.	–
VM tone detect	<b>[0] [7] [2]</b>	<b>[1]</b> : On <b>[0]</b> : Off	p. 35
Change language	<b>[0] [8]</b>	<b>[1]</b> : English <b>[2]</b> : Spanish	p. 14
Message alert	<b>[0] [#]</b>	<b>[1]</b> : On <b>[0]</b> : Off	p. 18

### During programming:

When “**SAVE**” is displayed, press the right soft key to **save the new settings**.

To exit programming, press **[OFF]**.

- If you press the direct command incorrectly, press **[OFF]**, then re-enter programming mode by pressing **[MENU]**.
- For function details, see the corresponding pages.



# If the Following Appear on Your Display...

The following will be displayed when the unit needs your attention.





Display message	Cause & Remedy
Recharge battery	<ul style="list-style-type: none"><li>• The battery needs to be charged. Recharge the battery (p. 11).</li></ul>
Charge for 6 HRS	<ul style="list-style-type: none"><li>• The battery has been discharged. The handset will not work. Fully charge the battery (p. 10).</li></ul>
No link to base. Move closer to base and try again.	<ul style="list-style-type: none"><li>• The handset has lost communication with the base unit. Walk closer to the base unit and try again or re-register the handset (p. 40).</li><li>• Confirm the base unit's AC adaptor is plugged in.</li><li>• Raise the base unit antennas.</li></ul>
Please lift up and try again.	<ul style="list-style-type: none"><li>• A handset button was pressed while the handset was on the base unit. Lift the handset and press the button again.</li></ul>
Error!!	<ul style="list-style-type: none"><li>• When you tried to re-register the handset, the handset and base unit could not link for some reason, such as interference from electrical appliances. Move the handset and base unit away from any electrical appliances and try again.</li></ul>
Phone book full	<ul style="list-style-type: none"><li>• When you tried to store an item in the phone book, the phone book memory was full. Press <b>[OFF]</b> to exit programming mode. To erase other items from the phone book, see page 33.</li></ul>
Store VM access#	<ul style="list-style-type: none"><li>• A voice mail access number is not stored. Store the number (p. 34).</li></ul>
System is busy. Please try again later.	<ul style="list-style-type: none"><li>• The handset has lost communication with the base unit. Walk closer to the base unit and try again.</li></ul>

# Troubleshooting


If the handset display shows error messages, see “If the Following Appear on Your Display...” (p. 46) for the Cause & Remedy.

Problem	Cause & Remedy
“No link to base. Move closer to base and try again.” is displayed and an alarm tone sounds.	<ul style="list-style-type: none"><li>• You are too far from the base unit. Walk closer to the base unit, and try again.</li><li>• Confirm the base unit's AC adaptor is plugged in.</li><li>• Raise the base unit antennas.</li><li>• If the above remedies do not solve the problem, the handset may have lost communication with the base unit. Register the handset again (p. 40).</li></ul>
The handset and/or base unit does not work.	<ul style="list-style-type: none"><li>• Check the settings (p. 9–11).</li><li>• Check whether the dialing mode setting is correct (p. 14).</li><li>• Fully charge the battery (p. 10).</li><li>• Clean the charge contacts and charge again (p. 11).</li><li>• Check battery installation (p. 10).</li><li>• Unplug the base unit's AC adaptor to reset it. Plug in, and try again.</li><li>• Re-install the battery (p. 10) and fully charge it.</li></ul>
Static, sound cuts in/out, fades. Interference from other electrical units.	<ul style="list-style-type: none"><li>• Move the handset and base unit away from other electrical appliances (p. 3).</li><li>• Walk closer to the base unit.</li><li>• Raise the base unit antennas.</li><li>• Turn on the Clarity Booster feature (p. 21).</li></ul>
The handset does not ring.	<ul style="list-style-type: none"><li>• The ringer volume is turned off. Set to high, medium, or low (p. 16).</li></ul>
The handset display is blank.	<ul style="list-style-type: none"><li>• If the handset display is blank, fully charge the battery (p. 10).</li></ul>
You cannot program any function items.	<ul style="list-style-type: none"><li>• Programming is not possible while the handset is being used.</li><li>• Do not pause for over 60 seconds while programming.</li><li>• Walk closer to the base unit.</li></ul>
While programming or searching, the handset starts to ring and the program/search stops.	<ul style="list-style-type: none"><li>• A call is coming in. To answer the call, press  or . Start again from the beginning after hanging up.</li></ul>

# Troubleshooting

Problem	Cause & Remedy
You cannot redial.	<ul style="list-style-type: none"> <li>If the last number dialed was more than 48 digits long, the number will not be redialed correctly.</li> </ul>
You cannot make long distance calls.	<ul style="list-style-type: none"> <li>Please make sure you have long distance service.</li> </ul>
The handset does not display the caller's name and/or phone number.	<ul style="list-style-type: none"> <li>You need to subscribe to Caller ID.</li> <li>Other telephone equipment may be interfering with your phone. Disconnect it and try again.</li> <li>Other electrical appliances connected to the same outlet may be interfering with Caller ID.</li> <li>Telephone line noise may be affecting Caller ID.</li> <li>The caller requested not to send his/her Caller ID information (p. 23).</li> <li>If a (separate) Caller ID box is connected between the base unit and the telephone wall jack, disconnect the Caller ID box or plug the unit directly into the wall jack.</li> </ul>
The handset cannot automatically edit the Caller List/incoming phone numbers.	<ul style="list-style-type: none"> <li>The Caller ID Number Auto Edit feature is turned off. Turn it on (p. 27) and try again.</li> <li>You need to press <b>[↶]</b> or <b>[↷]</b> after editing the number.</li> </ul>
The handset display exits the Caller List or phone book.	<ul style="list-style-type: none"> <li>Do not pause for over 60 seconds while searching.</li> </ul>
"Recharge battery" is displayed, "  flashes, or the handset beeps intermittently.	<ul style="list-style-type: none"> <li>Fully charge the battery (p. 10).</li> </ul>
"Charge for 6 HRS" and "  are displayed and the handset does not work.	<ul style="list-style-type: none"> <li>The battery has been discharged. Fully charge the battery (p. 11).</li> </ul>
You charged the battery fully, but "Recharge battery" is still displayed and/or "  continues to flash, or "Charge for 6 HRS" and "  are displayed.	<ul style="list-style-type: none"> <li>Clean the charge contacts and charge again (p. 11).</li> <li>The battery may need to be replaced. If you install a new battery, fully charge it (p. 10, 11).</li> </ul>



Problem	Cause & Remedy
The CHARGE indicator does not go out after the battery has been charged.	<ul style="list-style-type: none"> <li>• This is normal.</li> </ul>
The Ringer/Message Alert indicator flashes slowly when the handset is not ringing and in use.	<ul style="list-style-type: none"> <li>• The Message Alert is turned on and new messages in your voice mailbox have been recorded. Turn the Message Alert off (p. 18) or listen to the new messages (p. 36).</li> </ul>
You cannot have a conversation using the headset.	<ul style="list-style-type: none"> <li>• Make sure the optional headset is connected properly (p. 41).</li> <li>• If “SP-phone” is displayed on the handset, press [&gt;] to switch to the headset.</li> </ul>
If you cannot solve your problem	<ul style="list-style-type: none"> <li>• Visit our website: <a href="http://www.panasonic.com/support">http://www.panasonic.com/support</a></li> <li>• Contact us via the web at: <a href="http://www.panasonic.com/contactinfo">http://www.panasonic.com/contactinfo</a></li> <li>• Call our customer call center at: 1-800-211-PANA(7262)</li> </ul>

# Important Safety Instructions

---

When using this unit, basic safety precautions should always be followed to reduce the risk of fire, electric shock, or personal injury.

1. Read and understand all instructions.
2. Follow all warnings and instructions marked on this unit.
3. Unplug this unit from AC outlets before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this unit near water, for example, near a bathtub, washbowl, kitchen sink, or the like.
5. Place this unit securely on a stable surface. Serious damage and/or injury may result if the unit falls.
6. Do not cover slots and openings on the unit. They are provided for ventilation and protection against overheating. Never place the unit near radiators, or in a place where proper ventilation is not provided.
7. Use only the power source marked on the unit. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
8. Do not place objects on the power cord. Install the unit where no one can step or trip on the cord.
9. Do not overload wall outlets and extension cords. This can result in the risk of fire or electric shock.
10. Never push any objects through slots in this unit. This may result in the risk of fire or electric shock. Never spill any liquid on the unit.
11. To reduce the risk of electric shock, do not disassemble this unit. Take the unit to an authorized servicer when service is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the unit is subsequently used.
12. Unplug this unit from the wall outlet and refer servicing to an authorized servicer when the following conditions occur:
  - A. When the power supply cord or plug is damaged or frayed.
  - B. If liquid has been spilled into the unit.
  - C. If the unit has been exposed to rain or water.
  - D. If the unit does not work normally by following the operating instructions. Adjust only controls covered by the operating instructions. Improper adjustment may require extensive work by an authorized servicer.
  - E. If the unit has been dropped or physically damaged.
  - F. If the unit exhibits a distinct change in performance.
13. During thunderstorms, avoid using telephones except cordless types. There may be a remote risk of an electric shock from lightning.
14. Do not use this unit to report a gas leak, when in the vicinity of the leak.

## SAVE THESE INSTRUCTIONS

# Important Safety Instructions

## CAUTION:

To reduce the risk of fire or injury to persons, read and follow these instructions.

1. Use only the battery(ies) specified.
2. Do not dispose of the battery(ies) in a fire. They may explode. Check with local waste management codes for special disposal instructions.
3. Do not open or mutilate the battery(ies). Released electrolyte is corrosive and may cause burns or injury to the eyes or skin. The electrolyte may be toxic if swallowed.
4. Exercise care in handling batteries in order not to short the battery to conductive materials such as rings, bracelets, and keys. The battery and/or conductor may overheat and cause burns.
5. Charge the battery(ies) provided with or identified for use with this product only in accordance with the instructions and limitations specified in this manual.

## WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR ANY TYPE OF MOISTURE.

- The AC adaptor is used as the main disconnect device, ensure that the AC outlet is located/installed near the unit and is easily accessible.

# FCC and Other Information

---

This equipment complies with Part 68 of the FCC rules and the requirements adopted by the ACTA. On the bottom of this equipment is a label that contains, among other information, a product identifier in the format US:ACJ-----.

If requested, this number must be provided to the telephone company.

Registration No. .... (found on the bottom of the unit)  
Ringer Equivalence No. (REN).....0.1B

A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA. A compliant telephone cord and modular plug is provided with this product. It is designed to be connected to a compatible modular jack that is also compliant.

The REN is used to determine the number of devices that may be connected to a telephone line. Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call. In most but not all areas, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company. For products approved after July 23, 2001, the REN for this product is part of the product identifier that has the format US:AAAEQ##TXXXX. The digits represented by ## are the REN without a decimal point (e.g., 03 is a REN of 0.3).

If this equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the operation of the equipment. If this happens the telephone company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.

If trouble is experienced with this equipment, for repair or warranty information, please contact a Factory Servicenter or other Authorized Servicer. If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved.

Connection to party line service is subject to state tariffs. Contact the state public utility commission, public service commission or corporation commission for information.

If your home has specially wired alarm equipment connected to the telephone line, ensure the installation of this equipment does not disable your alarm equipment. If you have questions about what will disable alarm equipment, consult your telephone company or a qualified installer.

## WHEN PROGRAMMING EMERGENCY NUMBERS AND(OR) MAKING TEST CALLS TO EMERGENCY NUMBERS:

- 1) Remain on the line and briefly explain to the dispatcher the reason for the call.
- 2) Perform such activities in the off-peak hours, such as early morning or late evenings.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Privacy of communications may not be ensured when using this phone.

**CAUTION:**

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

**Note:**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Some cordless telephones operate at frequencies that may cause interference to nearby TVs and VCRs. To minimize or prevent such interference, the base of the cordless telephone should not be placed near or on top of a TV or VCR. If interference is experienced, move the cordless telephone further away from the TV or VCR. This will often reduce, or eliminate, interference.

Operating near 5.8GHz electrical appliances may cause interference. Move away from the electrical appliances.

**FCC RF Exposure Warning:**

This product complies with FCC radiation exposure limits set forth for an uncontrolled environment. To comply with FCC RF exposure requirements the base unit must be installed and operated with its antenna located 20 cm or more between antenna and all person's body (excluding extremities of hands, wrist and feet). The handset unit may be carried and operated with only the specific provided belt-clip. Other non-tested belt-clips or similar body-worn accessories may not comply and must be avoided. The base and handset units must not be co-located or operated in conjunction with any other antenna or transmitter.

This equipment is hearing aid compatible as defined by the FCC in 47 CFR Section 68.316.

When you hold the phone to your ear, noise might be heard in your Hearing Aid. Some Hearing Aids are not adequately shielded from external RF (radio frequency) energy. If noise occurs, use an optional headset accessory or the speakerphone option (if applicable) when using this phone. Consult your audiologist or Hearing Aid manufacturer about the availability of Hearing Aids which provide adequate shielding to RF energy commonly emitted by digital devices.

A TIA/EIA-IS-968 compliant telephone cord and modular plug is provided with this equipment. This equipment is designed to be connected to the telephone network or premises wiring using a compatible modular jack that is also TIA/EIA-IS-968 compliant.

## FCC and Other Information

---

- **Environment** — do not place the unit in a room where the temperature is less than 5°C (41°F) or greater than 40°C (104°F). Allow 10 cm (4") clearance around the unit for proper ventilation. Avoid excessive smoke, dust, mechanical vibration, shock, or direct sunlight.
- **Medical** — consult the manufacturer of any personal medical devices, such as pacemakers or hearing aids, to determine if they are adequately shielded from external RF (radio frequency) energy. (The unit operates in the frequency range of 5760MHz to 5840MHz, and the power output level can range 0.25 to 0.5 watts.) Do not use the unit in health care facilities if any regulations posted in the area instruct you not to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF (radio frequency) energy.
- **Routine care** — wipe the unit with a soft cloth. Do not use benzine, thinner, or any abrasive powder. When you leave the unit unused for a long period of time, unplug the AC adaptor from the outlet.
- **If there is any trouble** — disconnect the unit from the telephone line and connect a known working phone. If the known working phone operates properly, have your unit repaired by one of the authorized Panasonic Factory Service Centers. If the known working phone does not operate properly, consult your telephone company.

# Index

- A**
- Accessories . . . . . 2
  - Answering calls . . . . . 22
  - Auto talk . . . . . 15, 22
- B**
- Backlit LCD . . . . . 21
  - Base unit location . . . . . 6
  - Battery charge . . . . . 3, 10
  - *Battery information* . . . . . 11
  - Battery replacement . . . . . 10, 11
  - Battery strength . . . . . 10
  - Belt clip . . . . . 41
  - *Booster* . . . . . 21
- C**
- Call Waiting Caller ID display . . . . 38
  - Call waiting tone . . . . . 38
  - *Caller ID number auto edit* . . . 26, 27
  - Caller ID service . . . . . 23
  - Caller List, editing . . . . . 26
  - Caller List, erasing . . . . . 28
  - Caller List, storing . . . . . 28
  - Caller List, viewing . . . . . 24
  - Calling back from the Caller List . . 25
  - *Chain dial* . . . . . 32
  - CID (Caller ID) . . . . . 23
  - *Clarity booster* . . . . . 21
- D**
- Dialing mode . . . . . 14
  - Direct commands . . . . . 45
  - Display . . . . . 8
  - Display language . . . . . 14
- E**
- Error messages . . . . . 46
- F**
- FCC and other information . . . . . 52
  - FLASH button . . . . . 39
  - Flash time . . . . . 39
  - *Function menu,*  
*Direct commands* . . . . . 45
  - Function menu, selection . . . . . 12
  - Function menu, table . . . . . 13
- H**
- Handset locator . . . . . 37
  - Headset, optional . . . . . 41
  - Hold . . . . . 20
- I**
- Installation, AC adaptor . . . . . 9
  - Installation, battery . . . . . 10
  - Installation, telephone line cord . . . 9
- K**
- Key tone . . . . . 40
- L**
- LCD contrast . . . . . 18
  - Lighted handset keypad . . . . . 21
  - Line mode . . . . . 15
  - Location of controls . . . . . 6, 7
- M**
- Making calls . . . . . 19
  - *Message alert* . . . . . 18
  - Microphone, handset . . . . . 19
  - Mute . . . . . 37
- N**
- Navigator key . . . . . 7
  - Noise . . . . . 3
- P**
- PAUSE . . . . . 38
  - *Phone book* . . . . . 29
  - Phone book, dialing . . . . . 31, 32
  - Phone book, editing . . . . . 33
  - Phone book, erasing . . . . . 33
  - Phone book, names . . . . . 30
  - Phone book, storing . . . . . 29
  - Power failure . . . . . 9
  - Pulse service . . . . . 37

# Index

---

## R

Redial.....	20
Redial list.....	20
– <i>Registration</i> .....	40
Ringer off.....	16, 22
Ringer tone.....	17
Ringer volume.....	16, 22
Rotary service, tone dialing.....	37

## S

Safety instructions.....	50
Shipping product for service .....	Back cover
Soft keys.....	7
Specifications.....	59
SP-phone.....	19

## T

Troubleshooting.....	47
TTY.....	2, 58, Back Cover

## V

VE (Voice Enhancer).....	21
– <i>VM (Voice Mail)</i> .....	34
– <i>Voice enhancer technology</i> .....	21
Volume control.....	20

## W

Wall mounting.....	42
Warranty.....	57

- “–” indicates important information and frequently used features.







# Specifications

## ■ Handset

<b>Power Supply:</b>	Ni-MH battery (3.6 V, 830 mAh)
<b>Frequency:</b>	5.76 GHz – 5.84 GHz
<b>Dimensions (H x W x D):</b>	Approx. 220 mm x 53 mm x 37 mm (8 <sup>21</sup> / <sub>32</sub> " x 2 <sup>3</sup> / <sub>32</sub> " x 1 <sup>15</sup> / <sub>32</sub> " )
<b>Mass (Weight):</b>	Approx. 210 g (0.46 lb.)
<b>Security Codes:</b>	1,000,000

## ■ Base Unit

<b>Power Supply:</b>	AC adaptor (120 V AC, 60 Hz)
<b>Power Consumption:</b>	Standby:   Approx. 2.3 W Maximum:   Approx. 5.5 W
<b>Frequency:</b>	5.76 GHz – 5.84 GHz
<b>Dimensions (H x W x D):</b>	Approx. 107 mm x 214 mm x 135 mm (4 <sup>7</sup> / <sub>32</sub> " x 8 <sup>7</sup> / <sub>16</sub> " x 5 <sup>5</sup> / <sub>16</sub> " )
<b>Mass (Weight):</b>	Approx. 340 g (0.75 lb.)

■ **Dialing Mode:**                   Tone (DTMF)/Pulse

■ **Operating Environment:** 5 °C – 40 °C (41 °F – 104 °F)

Specifications are subject to change without notice.

## For your future reference

Serial No. _____	Date of purchase _____
(found on the bottom of the unit)	
Name and address of dealer _____	

## Energy Star:

As an ENERGY STAR® Participant, Panasonic has determined that this product meets the ENERGY STAR guidelines for energy efficiency. ENERGY STAR is a U.S. registered mark.



**If you need assistance with setup or operation, please  
call 1-800-211-PANA(7262)**

**For hearing or speech impaired TTY users, TTY : 1-877-833-8855**